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1984 Cumulative
Index

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National Aeronautics and
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SPECIAL NOTICE ENCLOSED
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SPECIAL NOTICE

FOREIGN TECHNOLOGY INDEX IN THIS ISSUE

Documents referred to in this bibliography whose country of intellectual origin is other than the United States are listed in the Foreign Technology Index (see page D-1).

A great deal of excellent scientific and technical work is done throughout the world. To the extent that U.S. researchers, engineers, and industry can utilize what is done in foreign countries, we save our resources. We can thus increase our country's productivity.

We are testing out this approach by helping readers bring foreign technology into focus. We would like to know whether it is useful, and how it might be improved.

Check below, tear out, fold, staple, and return this sheet.

Foreign Technology Index:

- ☐ Isn't useful, so should be discontinued.
- ☐ Is useful, but other sources can be used.
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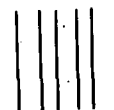
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**A CUMULATIVE INDEX
TO
A CONTINUING BIBLIOGRAPHY ON**

**AEROSPACE MEDICINE
AND BIOLOGY**

This Cumulative Index supersedes the indexes contained in supplements [SP-7011(255) through SP-7011(266)] published by NASA during 1984.



Scientific and Technical Information Branch

National Aeronautics and Space Administration

Washington, DC

1985

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INTRODUCTION

WHAT THIS CUMULATIVE INDEX IS

This publication is a cumulative index to the abstracts contained in NASA SP-7011(255) through NASA SP-7011(266) of *Aerospace Medicine and Biology: A Continuing Bibliography*, NASA SP-7011, and by means of supplements, serves as a current abstracting and announcement journal for references on bioscience and biotechnology. It has been compiled through the cooperative efforts of the American Institute of Aeronautics and Astronautics (AIAA), and the National Aeronautics and Space Administration (NASA). Entries prepared by the two contributing organizations are identified as follows:

1. NASA entries by their *STAR* accession numbers (N84-10000 series).
2. AIAA entries by their *IAA* accession numbers (A84-10000 series).

HOW THIS CUMULATIVE INDEX IS ORGANIZED

This Cumulative Index includes a subject, personal author, and corporate source index.

HOW TO USE THE SUBJECT INDEX

Two types of cross-references appear in the subject index:

1. Use (U) references indicate that the subject term is not "postable," i.e., not a valid term, and that the following term or terms are used instead. For example:

DOSE

U DOSAGE

AIRLINERS

U COMMERCIAL AIRCRAFT

U PASSENGER AIRCRAFT

2. Narrower Term (NT) references refer the user to more specific headings in the same subject area, under which additional material on the subject may be found. For example:

FATIGUE (BIOLOGY)

NT AUDITORY FATIGUE

NT FLIGHT FATIGUE

NT MUSCULAR FATIGUE

In addition, a searcher may use the title or title and title extension in the index to narrow further his quest for particular items, this is because subject terms can readily include more than one class of document. For example:

BIOLOGICAL EFFECT

Vibratory force effect upon biological systems, particularly human organism.

Biological effect of cosmic and solar radiations on human body at high altitudes.

illustrates a case where two references on different topics are listed under the same subject term.

HOW TO USE THE PERSONAL AUTHOR INDEX

All personal authors used in the abstract-section citations in the individual Supplements appear in the index. Differences in translation schemes may require multiple searching of the index for variants of an author's name. For example:

EMELIANOV, M. D.

and

YEMEL'YANOV, M. D.

HOW TO USE THE CORPORATE SOURCE INDEX

The corporate source index entries are abridged versions of the corporate sources used in the abstract-section citations in the individual Supplements. The corporate source supplementary (organizational component) does not appear in the index. For example:

NEW MEXICO STATE UNIV., LAS CRUCES. DEPT. OF BIOLOGY.	(Source citation entry)
NEW MEXICO STATE UNIV., LAS CRUCES.	(Source index entry)

IDENTIFICATION OF DESIRED SUPPLEMENT

The abstract and descriptive cataloging for any accession number selected from the indexes may be found in the appropriate Supplement. The page-number range of each Supplement appears on the inside front cover of this index. Once the range of page numbers containing the selected accession number is located in the second column, the desired Supplement number will be found in the first column. For example:

Page 476 will be found in Supplement 265.

AVAILABILITY OF DOCUMENTS

Information concerning the availability of documents announced in *Aerospace Medicine and Biology* supplements is found in the Introduction to the most currently issued supplement.

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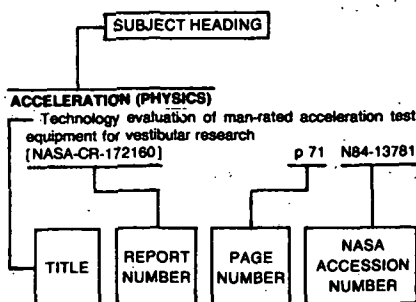
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Typical Subject Index Listing



The subject heading is a key to the subject content of the document. The title is used to provide a description of the subject matter. When the title is insufficiently descriptive of the document content, the title extension is added, separated from the title by three hyphens. The (NASA or AIAA) accession number and the page number are included in each entry to assist the user in locating the abstract in the abstract section. If applicable, a report number is also included as an aid in identifying the document. Under any one subject heading, the accession numbers are arranged in sequence with the AIAA accession numbers appearing first.

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 International Union of Physiological Sciences, Commission on Gravitational Physiology, Annual Meeting, 5th, Moscow, USSR, July 26-29, 1983, and Symposium on Gravitational Physiology, Sydney, Australia, August 28-September 3, 1983, Proceedings p 203 A84-24326

Subcellular investigation of the influence of real and modulated weightlessness upon performance and regeneration processes in muscular tissue p 173 A84-24338

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Biological rhythms and the organization of human life in space — Russian book p 213 A84-25924
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Gravitational biology on the space station [SAE PAPER 831133] p 242 A84-29063
 Space physiology: Colloquium, Toulouse, France, March 1-4, 1983, Proceedings p 288 A84-30326

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 Manual of space biology and medicine (3rd revised and enlarged edition) — Russian book p 482 A84-48753

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 Microgravity as an additional tool for research in human physiology with emphasis on sensorimotor systems [ESA-BR-15] p 217 N84-18900

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- International Union of Physiological Sciences, Commission on Gravitational Physiology, Annual Meeting, 5th, Moscow, USSR, July 26-29, 1983, and Symposium on Gravitational Physiology, Sydney, Australia, August 28-September 3, 1983, Proceedings p 203 A84-24326
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- International Conference on the Origin of Life, 7th, Mainz, West Germany July 10-15, 1983, Proceedings p 399 A84-40426
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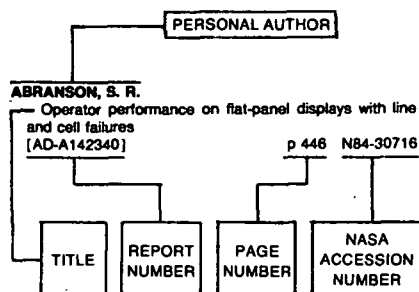
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Comparison of real-ear attenuation characteristics of the standard SPH-4 earcup and a prototype crushable earcup
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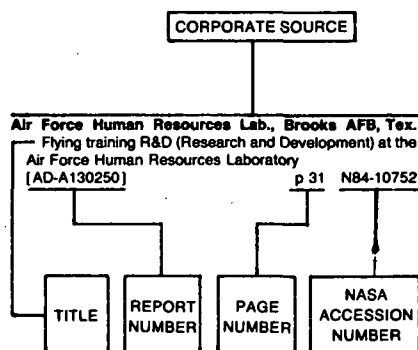
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Elliott-Automation Space and Advanced Military Systems Ltd., Camberley (England).

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Environmental Health Lab., Wiesbaden, APO New York 09220.

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European Space Agency, European Space Research and Technology Center, ESTEC, Noordwijk (Netherlands).

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Federal Aviation Administration, Oklahoma City, Okla.

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Fondazione Ugo Bordon, Rome (Italy).

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Freie Univ., Berlin (West Germany).

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G**Gaubilus Inst., Leiden (Netherlands).**

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General Electric Co., St. Petersburg, Fla.

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Part-task training strategies in simulated carrier landing final approach training
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Annotated bibliography of human factors laboratory reports (1945-1968): Supplement 4, 1979-1983
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Navy Personnel Research and Development Center, San Diego, Calif.

Guide to the development of a human factors engineering data retrieval system
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Spatial performance, cognitive representation and cerebral procedures
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Nebraska Univ., Lincoln.

The Prochloron symbiosis
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Nelson and Johnson Engineering, Inc., Boulder, Colo.

The historical development and basis of human factors guidelines for automated systems in aeronautical operations
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New Mexico State Univ., Las Cruces.

Human factors affecting pilot performance in vertical and translational instrument flight
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Eye accommodation, personality, and autonomic balance
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New York State Coll. of Agriculture and Life Sciences, Ithaca.

Understanding picture-text instructions
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New York State Dept. of Health, Albany.

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New York State Univ., Binghamton.

Neurospora circadian rhythms in space - A reexamination of the endogenous-exogenous question
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New York Univ., New York.

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Neuromagnetic investigation of workload and attention
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New York Univ. Medical Center.

Effects of microwaves on cell membrane permeability
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Nijmegen Univ. (Netherlands).

Crystallization of the membrane protein rhodopsin
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North Carolina Agricultural and Technical State Univ., Greensboro.

Computer aided techniques for crew station design, work-space Organizer-WORG, workstation layout Generator-WOLAG
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North Carolina Univ. at Greensboro.

Short-term memory and dual task performance
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North Carolina Univ., Chapel Hill.

Oxygen insufficiency and energy failure in brain: Uncoupling of oxidative phosphorylation at low oxygen concentration
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Northrop Services, Inc., Research Triangle Park, N. C.

Dosimetry of ozone and nitrogen dioxide in man and animals
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Norwegian Defence Research Establishment, Kjeller.

A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
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General introduction to the study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
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Modulation of the cholinergic mechanisms in the bronchial smooth muscle
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Norwich Univ., Northfield, Vt.

Windows on a future world: Human dimensions of Air Force doctrine in the 21st century
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O

Oak Ridge National Lab., Tenn.

Nonparametric estimation of the distribution of time to onset for specific diseases in survival/sacrifice experiments
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The relevance of experimental animal studies to the human experience
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Human factors in remote control engineering development activities
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Oakland Univ., Rochester, Mich.

Relevant and irrelevant legal structures: Distinguishing private sector from DOD contracting
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Oesterreichisches Forschungszentrum Seibersdorf G.m.b.H., Vienna.

Poly (ADP-ribose) in nucleoids
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Radiation protection problems caused by nonionizing electromagnetic radiation in Austria
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The Austrian primary standard for ionizing radiation dosimetry results of international intercomparisons
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Office National d'Etudes et de Recherches Aeronautiques, Paris (France).

Flight dynamics and aircraft piloting
[ONERA-P-1983-1] p 339 N84-26301

Office of Naval Research, London (England).

Applied psychology in Europe: An ONR perspective
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Robot manipulator control
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A survey of European robotics research
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Bioelectromagnetics research in France: An assessment
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Office of Technology Assessment, Washington, D.C.

Commercial biotechnology: An international analysis
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- OPTRA, Inc., Everett, Mass.**
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- Osaka Electro-Communication Univ. (Japan).**
Fuzzy reasoning under new compositional rules of inference
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- Ottawa Univ. (Ontario).**
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies
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Absolute photopeak efficiency values for an intrinsic well-type Ge detector in the gamma ray region 0.1 to 3.0 MeV
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- Pacific Northwest Lab., Richland, Wash.**
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- Pacific-Sierra Research Corp., Los Angeles, Calif.**
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- Perceptronics, Inc., Menlo Park, Calif.**
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- Perceptronics, Inc., Woodland Hills, Calif.**
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- Philips Medical Service, Eindhoven (Netherlands).**
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- Park (George W.) Seed Co., Inc., Greenwood, S.C.**
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- Pittsburgh Univ., Pa.**
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- Polish Academy of Sciences, Warsaw.**
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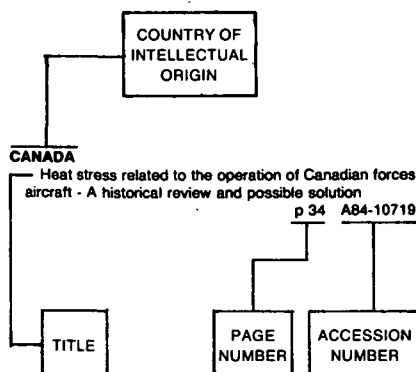
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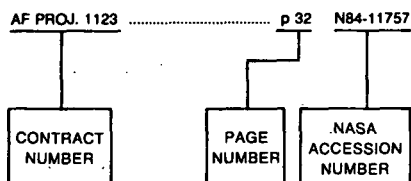
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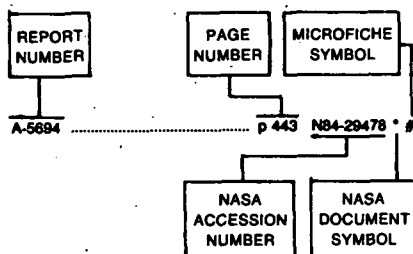
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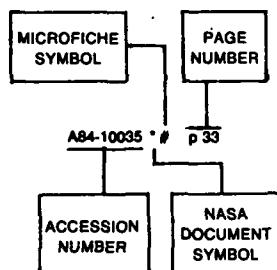
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